

April 9, 2015

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7549435

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2015-CH-031

FEDERAL-AID PROJECT NO. FAP Nos: NHS-0004(014), NHSG-0004(015)

**Improvements to Route 4 Contract 1**

Approximately 2,800' +/- north of Oak Hill Road to U.S. Route 1

CITY/TOWN OF North Kingstown

COUNTY OF WASHINGTON

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 1 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

**A. Clarification**

1. Item Code 928.0800 Truck Mounted Attenuator with Truck Mounted Flashing Arrow Board

The minimum acceptable bid price for Item Code 928.0800 Truck Mounted Attenuator with Truck Mounted Flashing Arrow Board shown on Proposal Page P-1 has been revised to Six Hundred Twenty Five Dollars and No Cents (\$625.00) per PDAY. This price must be taken into account during bidding.

**B. General Provisions - Contract Specific**

1. Page CS – 4

Replace Page CS-4 with Page CS-4(R-1) attached to this Addendum No. 1. Paragraph 7 has been revised.

2. Appendix A: Transportation Management Plan

Replace Appendix A: Transportation Management Plan with the attached Transportation Management Plan(R-1) in its entirety.

**C. Specifications - Job Specific**

1. JS – i

Replace Page JS-i with Page JS-i(R-1) attached to this Addendum No. 1.

2. JS-40 and JS-41

Replace Pages JS-40 and JS-41 with Pages JS-40(R-1) and JS-41(R-1) attached to this Addendum No. 1. This specification has been revised to include the use of backer rod at transverse joints and also clarify the existing pavement base type.

3. JS-44A

Add Page JS-44A attached to this Addendum No.1. Job Specific Section 414 – Warm Mix Additive has been added.

4. JS-51A

Add Page JS-51A attached to this Addendum No. 1. Job Specific Section 929.9901 – Field Office has been added.

**D. Distribution of Quantities**

1. Index

Replace Index: 1 and Index: 2 with Pages Index: 1(R-1) and Index: 2(R-1) attached to this Addendum No. 1. Item Codes 901.0193 and 929.0110 have been deleted and Item Codes 414.9901, 901.9901, 906.0271, 929.9901 and T15.1000 have been added. Item Codes 201.0610, 408.0100, 922.0100 and T13.1000 have been modified.

2. Pages 2 of 34 and 3 of 34

Replace Pages 2 of 34 and 3 of 34 with Pages 2 of 36(R-1), 2a of 36, and 3 of 36(R-1) attached to this Addendum No. 1. The quantity for Item Code 201.0610 has been revised.

3. Page 8 of 34 and 9 of 34

Replace Pages 8 of 34 and 9 of 34 with Pages 8 of 36(R-1) and 9 of 36(R-1) attached to this Addendum No. 1. The station descriptions for Item Code 408.0100 Cleaning and Sealing Cracks in Bituminous Concrete Pavement have been revised.

4. Pages 16 of 34 and 17 of 34

Replace Pages 16 of 34 and 17 of 34 with Pages 16 of 36(R-1) and 17 of 36(R-1) attached to this Addendum No. 1. Item Code 901.0193 – Guardrail Steel Beam Single Face has been deleted.

5. Pages 19 of 34, 20 of 34 and 21 of 34

Replace Pages 19 of 34, 20 of 34 and 21 of 34 with Pages 19 of 36(R-1), 19a of 36, and 20 of 36(R-1), 20a of 36, and 21 of 36(R-1) attached to this Addendum No. 1. The quantity for Item Code 922.0100 Temporary Construction Signs has been revised, and Item Code 929.0110 Field Office has been deleted.

6. Pages 23 of 34 and 24 of 34

Replace Pages 23 of 34 and 24 of 34 with Pages 23 of 36(R-1), 23a of 36, 24 of 36(R-1), and 24a of 36 attached to this Addendum No. 1. The quantity for Item Code T13.1000 Traffic Detectors - Loop has been revised.

7. Page 34 of 34

Replace Page 34 of 34 with Pages 34 of 36(R-1), 35 of 36, and 36 of 36 attached to this Addendum No. 1. Item Codes 414.9901 – Warm Mix Additive, 901.9901 – Guardrail Steel Beam Single Face without Rubrail, 906.0271 – Precast Concrete Slope Face Transition Curb Standard 7.2.1, T15.1000 Street Sign Assembly Standard 24.6.1, and 929.9901 Field Office have been added.

**E. Plans**

1. Job Specific Plan Symbols, Legend & Notes

Replace the "Job Specific Plan Symbol, Legend & Notes" plan sheet with the "Job Specific Plan Symbol, Legend & Notes"(R-1) plan sheet attached to this Addendum No. 1. Job Specific Guardrail Replacement Note No. 4 has been revised, and Note No. 9 has been deleted. In addition, 'EOP' has been added to the list of abbreviations.

2. Signing and Striping Plan No. 3

Replace "Signing and Striping Plan No. 3" with "Signing and Striping Plan No. 3"(R-1) attached to this Addendum No. 1. Sign Designations 3-8 ad 3-9 have been added.

3. Signing and Striping Plan No. 9

Replace "Signing and Striping Plan No. 9" with "Signing and Striping Plan No. 9"(R-1) attached to this Addendum No. 1. Sign Designations 9-13 ad 9-14 have been added.

4. Details

Replace the "Details" plan sheet with "Details"(R-1) plan sheet attached to this Addendum No. 1. The 'Repairs to Longitudinal and Transverse Joints Removal of Existing Pavement Detail' has been revised, and a 'Typical Street Name Sign Panels Detail' has been added.



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RI Department of Transportation  
Chief Engineer

## **7. SPECIAL REQUIREMENTS FOR PAVEMENT MARKINGS:**

Waterborne longitudinal markings (including edge, center, lane, and gore-area lines and extensions), stop line markings, and lane use arrow markings shall be installed before the end of the work shift on all micro milled and other newly installed pavement surface areas that will be opened to traffic at the end of the shift.

Temporary markings not listed above (including, but not limited to, words, yield lines and other symbols, crosswalk lines, and parking space lines) should only be installed on the final (top-surface) course of newly paved roadways. Temporary pavement markings on the rubberized asphalt chip seal are required per the job specific specification for Section 412. The temporary pavement markings on the rubberized asphalt chip seal will be paid under item code T20.1020.

Final pavement markings shall be Epoxy Resin. The Epoxy Resin permanent pavement markings shall be placed on the final surface course no sooner than two weeks but no later than four weeks from the completion of the paving operation.

All pavement markings are to be in accordance with the requirements of the *Manual on Uniform Traffic Control Devices, 2009 Edition*, including all revisions.

It is the Contractor's responsibility to identify and log the locations of all the existing pavement markings where applicable, including edge lines and dash markings, onto newly finished surfaces. The Contractor shall make the necessary arrangements to re-establish these locations before any micro milling and overlay commences.

## **8. UTILITY STRUCTURES AND WATERWAYS WITHIN ROADWAY:**

No existing utility structures or waterways (i.e. paved waterways, gutter lines) shall be blocked by new pavement. Also, as indicated on the plan, the Contractor shall verify the locations of all manholes for adjustments to grade. Where necessary, the utility structures within the micro milling areas have been called for adjustment to new grade. Otherwise, at all other areas within the micro milling and overlay areas, the new pavement shall be tapered in towards the inlet opening.

## **9. CONTRACTOR'S RESPONSIBILITY FOR DAMAGED STORM DRAINS**

The Contractor shall use care when working within or in the vicinity of existing drainage structures. Any drainage structures, pipe or culverts damaged during the disposing of, cleaning of, and installation of or while making repairs to drainage structures, pipes or culverts or while carrying out any other work on this contract shall be the Contractor's responsibility. Any pipe/culvert damaged by the Contractor while carrying out this contract shall be replaced or repaired by the Contractor to the satisfaction of the Engineer at no additional charge to the State.

In addition, the Contractor will be responsible for:

- any damage to equipment in the roadway;
- any damage to existing walls, fences, etc.

The Contractor shall make every effort to prevent debris from falling into catch basins. Should any debris fall inside a structure, the debris shall be removed immediately.



Project Name: Improvements to Route 4 Contract 1  
 RI Design Contract No(s): 2006-EH-009  
 RI Construction Contract No(s): 2015-CH-031  
 Submission: ADV Date: 3/16/2015

**PROJECT INFORMATION**

**Brief Project Description:** This project shall consist of roadway improvements to Route 4 in the Town of North Kingstown. The resurfacing work is for approximately 2.45 miles of a four (4) lane divided highway which includes crack sealing, repairs to damaged transverse and longitudinal joints, placement of rubberized asphalt chip seal overlay, and friction course hot mix asphalt overlay. There is also micromill and overlay for an 800 foot section of Route 4 and side streets. Other roadway improvements include the replacement of guardrails, installation of rumble strips, cleaning of catch basins and pipes, adjustment of frames and grates/covers, signing and striping, and installation of loop detectors.

**General Work Limits:** The Route 4 project limits will be from Tower Hill Road (Route 1) to 2800'+/- north of Oak Hill Road.

WORK ZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
Route 4	Tower Hill Road	2,800' north of Oak Hill Road	2.45 mi.
Tower Hill Road (Route 1)			
Oak Hill Road			
West Allenton Road			

**General Project Schedule\*:** Construction for this project is expected to begin in the Summer of 2015 and be completed in the Fall of 2015.

\*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

**TRAFFIC-RELATED WORK RESTRICTIONS**

**General Restrictions:** See the attached General Restrictions Chart (Attachment A).

**Holiday Restrictions:** See the attached Holiday Restrictions Chart (Attachment B).

## TEMPORARY TRAFFIC CONTROL PLANS

*These RIDOT- and/or Designer-Developed TTC Plans will be used during the work on this project*

RIDOT TYPICAL TTC PLANS	Included in:		DESIGNER-DEVELOPED TTC PLANS	Included in:	
	TMP	Plan Set		TMP	Plan Set
<input type="checkbox"/> Mobile Operation	<input type="checkbox"/>	<input type="checkbox"/>	Temporary Traffic Control Plan No. 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Work Beyond the Shoulder	<input type="checkbox"/>	<input type="checkbox"/>	Temporary Traffic Control Plan No. 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Shoulder Closure - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Shoulder Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 2-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Shift - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Four Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Double Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

## PUBLIC INFORMATION PLAN

*These strategies will be used to provide information concerning the project to road users and the community*

**SELECTED STRATEGIES**

RIDOT travel advisories news releases  
 RIDOT travel advisories web site  
 RIDOT 511 traveler information system

**PUBLIC AWARENESS STRATEGIES**

**PUBLIC AWARENESS STRATEGIES**

Changeable message signs (CMS)

**RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS**

RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.  
 RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.  
 RIDOT TMP Imp. Mngr. to send RIDOT notification form to RIDOT TMC min. 48 hrs. in advance of restrictions.  
 RIDOT TMP Imp. Mngr. to notify NK Police Dept prior to side street closures. Phone: (401) 294-3316  
 NK Police Dept to notify Fire Department and Town Administrator of the side street closures.  
 Fire Department: (401) 294-3346    Town Administrator: (401) 294-3331  
 CMS to be provided in accordance with Portable CMS Placement Detail on Temporary Traffic Control Plan No. 2

## TRANSPORTATION OPERATIONS PLAN

*These strategies will be used to provide improved transportation operations/safety within project work zones*

**SELECTED STRATEGIES**

Cooperative police enforcement  
 Crash attenuators

**RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS**

Police details to be provided.

**PERFORMANCE MONITORING, CHANGES TO TMP, & CONTINGENCIES**

The Contractor's TMP Implementation Manager (if identified below) is responsible for keeping the portion of the project being used by public traffic in a condition that (1) safely and adequately accommodates such traffic and (2) is in accordance with the Traffic-Related Work Restrictions, the Temporary Traffic Control Plans, and where appropriate, the other transportation management strategies identified above. The RIDOT TMP Implementation Manager or his/her responsible designee should (1) inspect the project work zones at initial setup, at the start of each subsequent work day, and just prior to extended breaks in the work (e.g., weekends) for conformance with the Temporary Traffic Control Plans, the ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features, and where applicable, the other transportation management strategies identified above and (2) document all work zone-related feedback and complaints that are received from the public.

If at any time (1) a significant deviation from any of the strategies included in the TMP (e.g., the use of an alternate construction sequence) is desired by one or more members of the project implementation team, (2) field observations and/or data suggest that impacts to road users are or will be unacceptable, or (3) one or more performance requirements established in the TMP are not being met in the field, the RIDOT TMP Implementation Manager shall report the situation to his/her supervisor or Division/Section/Unit manager. The supervisor / manager will coordinate with the State Traffic Engineer, the Traffic Management Chief, the TMP Implementation Manager(s), the Chief Engineer, and/or other interested parties as appropriate and/or necessary to consider and determine whether revised and/or alternate strategies should be implemented in an effort to lessen the adverse safety and/or mobility impacts of the project. If the supervisor / manager deems that strategy changes should be implemented, the changes shall be documented in a revised version of the TMP and the Traffic Management Chief, the State Traffic Engineer, and the Chief Engineer must approve of the revised TMP prior to their implementation.

If a significant deviation from any of the strategies included in the TMP is requested by the Contractor, unless directed otherwise by the RIDOT the Contractor is responsible for preparing and submitting to the RIDOT TMP Implementation Manager appropriate documentation (e.g., design calculations, analysis reports, Temporary Traffic Control Plans, etc.) showing that the requested change(s) are (1) feasible and (2) expected to result in safety and mobility impacts that are no more adverse than the impacts resulting from the strategies already included in the latest approved TMP. The RIDOT will review and consider the submittal(s) as described in the preceding paragraph and will determine whether the changes should be implemented. If the requested changes are approved by the RIDOT, unless otherwise directed by the RIDOT the Contractor shall prepare and submit to the RIDOT TMP Implementation Manager a revised version of the latest approved TMP in both printed and electronic (Microsoft® Excel) format that documents all of the approved changes. Work to implement the changes shall not begin until the Traffic Management Chief, the State Traffic Engineer, and the Chief Engineer have approved of the revised TMP.

When unexpected events (e.g., crashes, inclement weather, unforeseen traffic demands, etc.) occur in a project work zone where one or more lanes are closed, the RIDOT TMP Implementation Manager or his/her responsible designee should (1) determine whether or not the lane closure(s) can/should be removed in order to improve traffic operations and/or minimize delays and (2) if deemed appropriate, take action to remove the lane closure(s).

Other Requirements:

**TMP APPROVALS**

All approvals must be obtained prior to start of work

DEPUTY CHIEF ENGINEER			STATE TRAFFIC ENGINEER			CHIEF ENGINEER		
Signature: <i>Frank Corrao</i> Frank Corrao III, P.E.			Signature: <i>Robert Rocchio</i> Robert Rocchio, P.E.			Signature: <i>Kazem Farhoumand</i> Kazem Farhoumand, P.E.		
Date: 4/4/15			Date: 4/1/15			Date: 4/7/15		
Revision #	Initials	Date	Revision #	Initials	Date	Revision #	Initials	Date

**TMP IMPLEMENTATION MANAGERS**

Project managers with the primary responsibility & authority for implementation of this TMP

RIDOT	CONTRACTOR (if contract work)
Name: _____	Name: _____
Title: _____	Title: _____
Unit: _____	Company/Unit: _____
Office Phone: _____	Office Phone: _____
Mobile Phone: _____	Mobile Phone: _____
E-Mail: _____	E-Mail: _____

### **Holiday Restrictions**

**NOTE: IN CASE OF DISCREPANCY BETWEEN THESE HOLIDAY RESTRICTIONS AND THE GENERAL RESTRICTIONS (ATTACHMENT A), THESE HOLIDAY RESTRICTIONS SHALL GOVERN.**

No lane and/or shoulder closures allowed after 13:00 on the Friday preceding a holiday weekend.

#### **EASTER SUNDAY**

No lane and/or shoulder closures allowed on Saturday.

No lane and/or shoulder closures allowed on Sunday until 20:00 (after 20:00, General Restrictions shall apply).

#### **NEW YEAR'S DAY, INDEPENDENCE DAY, & CHRISTMAS DAY**

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on the holiday.

#### **VETERANS DAY**

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on Veterans Day until 20:00 (after 20:00, General Restrictions shall apply).

#### **DR. MARTIN LUTHER KING JR. DAY, VICTORY DAY, & COLUMBUS DAY**

No lane and/or shoulder closures allowed on Saturday and/or Sunday.

No lane and/or shoulder closures allowed on Monday until 20:00 (after 20:00, General Restrictions shall apply).

#### **MEMORIAL DAY & LABOR DAY**

No lane and/or shoulder closures allowed on Saturday and/or Sunday.

No lane and/or shoulder closures allowed on Monday until 22:00 (after 22:00, General Restrictions shall apply).

#### **THANKSGIVING DAY**

No lane and/or shoulder closures allowed after 13:00 on the Wednesday preceding Thanksgiving Day.

No lane and/or shoulder closures allowed on Thanksgiving Day, Friday, Saturday, and/or Sunday.

**General Restrictions Chart**

Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC <sup>1,2,3</sup>								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Route 4 (May 18 thru September 30)	0:00	6:00	ALL	1 L	1 L	1 L	1 L	1 L	ALL
	6:00	20:00	ALL	2 L	2 L	2 L	2 L	2 L	ALL
	20:00	23:00	ALL NB / 1 L SB	1 L	1 L	1 L	1 L	ALL	ALL
	23:00	24:00	1 L	1 L	1 L	1 L	1 L	ALL	ALL
Route 4 (October 1 thru May 17)	0:00	6:00	ALL	1 L	1 L	1 L	1 L	1 L	ALL
	6:00	9:00	ALL	2 L	2 L	2 L	2 L	2 L	ALL
	9:00	15:00	ALL	1 L	1 L	1 L	1 L	1 L	ALL
	15:00	20:00	ALL	2 L	2 L	2 L	2 L	2 L	ALL
	20:00	24:00	1 L	1 L	1 L	1 L	1 L	ALL	ALL
Oak Hill Road	0:00	24:00	ALL	1 L (Alt.)	ALL				
West Allenton Road	0:00	6:00	ALL	1 L (Alt.)	ALL				
	6:00	20:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	20:00	24:00	1 L (Alt.)	1 L (Alt.)	1 L (Alt.)	1 L (Alt.)	1 L (Alt.)	1 L (Alt.)	ALL

**LEGEND**

ALL	All travel lanes and shoulders shall remain open to traffic
1 L	A minimum of one 11-foot wide travel lane in each direction shall remain open to traffic
2 L	A minimum of two 11-foot wide travel lanes in each direction shall remain open to traffic
1 L (Alt.)	A minimum of one 11-foot wide travel lanes in each direction shall remain open to alternating traffic.
ALL NB / 1 L SB	All travel lanes and shoulders shall remain open to traffic in the northbound direction on Route 4. A minimum of one 11-foot wide travel lane shall remain open to traffic in the southbound direction on Route 4.

**NOTES**

- 1 The set-up and break-down of temporary traffic control devices within a traveled way shall be construed as a closure of that traveled way.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 Access to and egress from all side streets, driveways, businesses, and residences intersecting the Project work zones shall be maintained at all times unless otherwise noted or shown on the Plans.

## SPECIFICATIONS - JOB SPECIFIC

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**JOB SPECIFIC**

**CODE 409.9901  
REPAIRS TO LONGITUDINAL JOINTS**

**CODE 409.9902  
REPAIRS TO TRANSVERSE JOINTS**

**DESCRIPTION:** These items of work shall include repairs to longitudinal and transverse joints at locations indicated on the Plans, in accordance with the Rhode Island Standard Specifications for Road and Bridge Construction (Amended 2013), and/or as directed by the Engineer, in accordance with these Specifications. The term joint shall refer to the interface of concrete slabs or the interface of concrete slab and adjacent Hot Mix Asphalt (HMA). The repairs shall consist of removing a minimum four (4) foot wide area centered over the joint level to the surface of the existing concrete slab, removal and legal disposal of HMA and any loose concrete or debris, cleaning and sweeping pavement, cleaning out the joint, filling the joint with crack seal, applying asphalt emulsion tack coat to all horizontal and vertical surfaces of the exposed concrete/HMA base, paving the exposed concrete/HMA base with Modified Class 9.5 HMA and compacting the HMA with a roller. Note that these repairs to joints shall be done prior to the pavement surface crack sealing operation.

**MATERIALS:**

The materials shall be in accordance with the following sections, including subsections, of the Rhode Island Standard Specifications for Road and Bridge Construction, Amended August 2013 with all revisions and the job specific Specifications included in this contract:

**Section 401.02** Dense Graded Hot Mix Asphalt (HMA) Pavements  
**Section 403.02** Asphalt Emulsion Tack Coat  
**Section 931.02** Cleaning and Sweeping Pavement

**CONSTRUCTION METHODS:**

The work shall be done in accordance with the following sections, including subsections, of the Rhode Island Standard Specifications for Road and Bridge Construction, Amended August 2013 with all revisions and the job specific Specifications included in this contract:

**Section 401.03** Dense Graded Hot Mix Asphalt (HMA) Pavements  
**Section 403.03** Asphalt Emulsion Tack Coat  
**Section 931.03** Cleaning and Sweeping Pavement

The existing HMA over the joint shall be removed level to the surface of the concrete using a cold planer with a minimum milling width of four feet. The beginning and end of each longitudinal and transverse repair shall be made square with the adjacent pavement by sawcutting the edges.

The milled surface shall be thoroughly cleaned. The transverse and longitudinal joints shall be thoroughly cleaned using air pressure or mechanical means to remove all debris and obstructions.

For transverse joints, an appropriately sized, approved backer rod shall be placed in the joint at a depth of one (1) inch for the width of the joint.

The exposed transverse and longitudinal joints shall be crack sealed in accordance with Section 408 of the Rhode Island Standard Specifications.

Tack coat shall be applied to all horizontal and vertical surfaces of the patch. It shall then be paved with Modified Class 9.5 HMA using a paver for longitudinal patches. Transverse patches may be paved using a paver or by hand. The compacted HMA shall be flush with the surface of the surrounding existing area. All patches must be paved and compacted before the area may be opened to traffic.

Rolling shall be performed with a steel wheel roller with a drum width less than the width of the patch. Compaction shall be at least 92% of the Gmm obtained from plant testing.

**METHOD OF MEASUREMENT:** “Repairs to Longitudinal Joints” and “Repairs to Transverse Joints” will be measured by the linear foot of repairs actually performed in accordance with the Plans and/or as directed by the Engineer. There will be no additional payment for repair work wider than four feet.

**BASIS OF PAYMENT:** The accepted quantities of “Repairs to Longitudinal Joints” and “Repairs to Transverse Joints” will be paid for at their contract unit price per linear foot as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all materials, labor, tools and equipment including but not limited to cold planing, removal and legal disposal of HMA and loose concrete and/or loose debris, cleaning and sweeping pavement, cleaning out the concrete joints and concrete/HMA joints, backer rod, concrete joint and concrete/HMA joint crack seal, applying asphalt emulsion tack coat, applying and compacting hot mix asphalt, sawcutting, and for all incidentals required to finish the work, complete, in-place and accepted by the Engineer.

**JOB SPECIFIC**

**SECTION 414  
WARM MIX ADDITIVE**

**414.01 DESCRIPTION.** This work consists of incorporating a WMA (Warm Mix Additive) in HMA (Hot Mix Asphalt).

**414.02 MATERIALS.** One unit of WMA shall be added to each ton of HMA. All WMA shall be selected from the RIDOT Approved Materials List and shall be added at a dosage rate recommended by the manufacturer.

**414.03 CONSTRUCTION METHODS.** If HMA is designated as “with WMA”, the Contractor shall use a WMA. If HMA is not designated as “with WMA”, the Contractor may request to use a WMA at his own discretion and cost. Additionally, the Engineer may direct the Contractor to use a WMA. If a WMA is used it shall be for an entire day’s production for that class of HMA.

**414.04 METHOD OF MEASUREMENT.** WMA will be measured by the number of units actually used in accordance with the specifications and/or as directed by the Engineer.

**414.05 BASIS OF PAYMENT** The accepted quantity of the WMA will be paid for at its respective contract unit price per each as listed in the Proposal.

**JOB SPECIFIC**

**CODE 929.9901 FIELD OFFICE**

Add the following to Standard Specification Section **929.03.5 Special Requirements for Field Office:**

**929.03.5 (d) Retroreflectometer:** This specification requires the purchase of a retroreflectometer for the measurement of the retroreflectance of traffic marking material. The meter shall meet wet and dry retroreflectance ASTM Standards D 6359-99, E 1710, E 2176, and E 2832, measure both plain texture and profiled markings, measure both liquid and preformed mediums, be capable of internal data storage and communication / PC download, record a GPS position for each measurement, compete with rechargeable battery, heavy-duty carrying case, minimum 2 year warranty, and manufacturer technical customer service, maintenance, and traceable calibration.

The retroreflectometer shall be Delta Light and Optics model LTL-X as distributed by Flint Trading, Inc., P.O. Box 160, Thomasville, NC 27361-0160, (336) 475-6600 or approved equal.

A paid invoice for the meter shall be submitted to the Engineer within 30 days from the issuance of the Notice to Proceed. The meter shall be delivered to RIDOT, Materials Section, 2 Capitol Hill, Room 018, Providence, RI 02903 and immediately become the property of the Rhode Island Department of Transportation.

**929.03.5 (e) Wetting Device:** This specification requires the purchase of a portable, powered, continuous wetting device to aide in the continuous wet measurement of traffic markings all in accordance with ASTM E 2832 Annex A1.

The wetting device complete with spray box, mobile cart, water tank, pump, adjustable nozzle(s), rechargeable battery, charger, and calibration container(s) is available through:

RainMaker Spray Box as distributed by Professional Pavement Products, Inc., 9556 Historic Kings Road S #315, Jacksonville, FL 32257, (9904) 733-2121 or approved equal.

A paid invoice for the wetting device will be submitted to the Engineer within 30 days from the issuance of the Notice to Proceed. The device will be delivered to RIDOT, Materials Section, 2 Capitol Hill, Room 018, Providence, RI 02903 and immediately become the property of the Rhode Island Department of Transportation.

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201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	1
<b>201.0610</b>	<b>REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS</b>	<b>2</b>
202.0100	EARTH EXCAVATION	4
204.0100	TRIMMING AND FINE GRADING	4
206.9901	COMPOST FILTER SOCK	4
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	5
213.9901	PLACEMENT OF MILLINGS BENEATH GUARDRAIL	5
302.0100	GRAVEL BORROW SUBBASE COURSE	6
401.1000	CLASS 19.0 HMA	6
401.3000	CLASS 9.5 HMA	6
401.3100	MODIFIED CLASS 9.5 HMA	7
401.4003	CLASS 4.75 HMA FOR PATCHING	7
402.9901	FRICITION COURSE	7
403.0300	ASPHALT EMULSION TACK COAT	8
<b>408.0100</b>	<b>CLEANING AND SEALING CRACKS IN BITUMINOUS CONCRETE PAVEMENT: CRACKS LESS THAN 1 INCH IN WIDTH</b>	<b>8</b>
408.0200	CLEANING AND SEALING CRACKS IN BITUMINOUS CONCRETE PAVEMENT: CRACKS 1 INCH AND OVER IN WIDTH	9
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<b>929.0110</b>	<b>** ITEM DELETED **</b>	<b>20</b>
931.0110	CLEANING AND SWEEPING PAVEMENT	21
932.0100	CUTTING AND MATCHING ASPHALT	21
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T20.2022	EPOXY RESIN PAVEMENT MARKING WORD "ONLY" STANDARD 20.1.0	33
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<b>929.9901</b>	<b>FIELD OFFICE</b>	<b>35</b>
<b>T15.1000</b>	<b>STREET SIGN ASSEMBLY STD. 24.6.1</b>	<b>36</b>

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003	201.0415 Cont.	549+74(S) RT - 558+68(S) RT		894.00	0021	01
<b>Item 201.0415 Total:</b>				<b>2,332.00</b>		
004	201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	EACH			
		NORTHBOUND				
		816+18N R		2.00	0021	01
		820+16N L		2.00	0021	01
		821+23N L		1.00	0021	01
		828+49N L		1.00	0021	01
		832+72N L		1.00	0021	01
		832+72N R		1.00	0021	01
		875+19N R		1.00	0021	01
		887+43N L		2.00	0021	01
		888+27N L		1.00	0021	01
		889+22N R		2.00	0021	01
		889+90N L		1.00	0021	01
		890+15N L		1.00	0021	01
		890+76N R		1.00	0021	01
		891+17N L		1.00	0021	01
		901+02N L		1.00	0021	01
		901+02N R		1.00	0021	01
		916+22N R		1.00	0021	01
		918+00N L		1.00	0021	01
		918+20N L		1.00	0021	01
		918+80N L		2.00	0021	01
		919+68N L		1.00	0021	01
		920+78N L		2.00	0021	01
		921+99N L		1.00	0021	01
		SOUTHBOUND				
		510+23S L		1.00	0021	01
		510+23S R		1.00	0021	01

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004	201.0610 Cont.	516+63S R		1.00	0021	01
		518+05S R		1.00	0021	01
		521+03S R		1.00	0021	01

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004	201.0610 Cont.	523+51S R		2.00	0021	01
		528+03S R		1.00	0021	01
		570+50S L		2.00	0021	01
		570+50S R		1.00	0021	01
		570+60S L		1.00	0021	01
		575+50S L		1.00	0021	01
		585+31S R		1.00	0021	01
		589+22S R		1.00	0021	01
		590+09S R		1.00	0021	01
		590+12S R		1.00	0021	01
		591+04S L		2.00	0021	01
		591+21S R		2.00	0021	01
		592+93S R		1.00	0021	01
		601+30S L		1.00	0021	01
		601+30S R		1.00	0021	01
		606+26S L		1.00	0021	01
		606+26S R		1.00	0021	01
		611+29S R		2.00	0021	01
		612+29S L		2.00	0021	01
		612+54S R		1.00	0021	01
		616+52S L		2.00	0021	01
		616+93S R		1.00	0021	01
		618+01S L		2.00	0021	01
		618+34S L		2.00	0021	01
		618+84S L		2.00	0021	01
		619+14S R		1.00	0021	01
		619+17S L		2.00	0021	01
		619+60S L		2.00	0021	01
		619+94S L		2.00	0021	01
		620+25S L		1.00	0021	01
		620+78S L		1.00	0021	01
		621+29S L		1.00	0021	01
<b>Item 201.0610 Total:</b>				<b>79.00</b>		

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015	402.9901 Cont.	NORTHBOUND				
		793+30 (N) - 923+19 (N)		4,750.00	0005	02
		SOUTHBOUND				
		493+30 (S) - 621+40 (S)		4,510.00	0005	02
<b>Item 402.9901 Total:</b>				<b>9,260.00</b>		
016	403.0300	<b>ASPHALT EMULSION TACK COAT</b>	<b>SY</b>			
		NORTHBOUND				
		793+30(N) - 801+00(N) (2 APPLICATIONS)		6,000.00	0005	02
		801+00(N) - 923+19(N)		52,265.00	0005	02
		916+00(N) RT - 921+67(N) RT		59.00	0005	02
		918+14(N) LT - 919+57(N) LT		42.00	0005	02
		918+76(N) LT - 921+02(N) LT		59.00	0005	02
		920+90(N) RT - 923+68(N) RT		39.00	0005	02
		WEST ALLENTON ROAD WB		209.00	0005	02
		SOUTHBOUND				
		493+00(S) - 501+00(S) (2 APPLICATIONS)		6,000.00	0005	02
		501+00(S) - 621+40(S)		50,075.00	0005	02
		616+50(S) LT - 621+40(S) LT		56.00	0005	02
		OAK HILL ROAD EB		224.00	0005	02
		WEST ALLENTON ROAD EB		602.00	0005	02
<b>Item 403.0300 Total:</b>				<b>115,630.00</b>		
017	408.0100	<b>CLEANING AND SEALING CRACKS IN BITUMINOUS CONCRETE PAVEMENT: CRACKS LESS THAN 1 INCH IN WIDTH</b>	<b>LF</b>			
		NORTHBOUND				
		(REFERENCE ITEM CODE NO. 409.9901 LENGTH X 2 EDGES)		15,000.00	0005	02
		(REFERENCE ITEM CODE NO. 409.9902 LENGTH X 2 EDGES)		600.00	0005	02

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017	408.0100 Cont.	801+00(N) - 923+19(N)		12,300.00	0005	02
		SOUTHBOUND				
		(REFERENCE ITEM CODE NO.		9,000.00	0005	02
		409.9901 LENGTH X 2 EDGES)				
		(REFERENCE ITEM CODE NO.		600.00	0005	02
		409.9902 LENGTH X 2 EDGES)				
		501+00(S) - 621+40(S)		12,100.00	0005	02
		<b>Item 408.0100 Total:</b>		<b>49,600.00</b>		
018	408.0200	<b>CLEANING AND SEALING CRACKS IN</b>	<b>LF</b>			
		<b>BITUMINOUS CONCRETE PAVEMENT:</b>				
		<b>CRACKS 1 INCH AND OVER IN WIDTH</b>				
		NORTHBOUND				
		801+00(N) - 923+19(N)		5,600.00	0005	02
		SOUTHBOUND				
		501+00(S) - 621+40(S)		4,400.00	0005	02
		<b>Item 408.0200 Total:</b>		<b>10,000.00</b>		
019	409.9901	<b>REPAIRS TO LONGITUDINAL JOINTS</b>	<b>LF</b>			
		NORTHBOUND				
		801+00(N) LT - 826+10(N) LT		2,510.00	0005	02
		RT EDGELINE				
		830+40(N) LT - 835+40(N) LT		500.00	0005	02
		RT EDGELINE				
		832+30(N) LT - 833+20(N) LT		90.00	0005	02
		DASH LINE				
		838+25(N) LT - 841+25(N) LT		300.00	0005	02
		DASH LINE				
		838+40(N) LT - 852+60(N) LT		1,420.00	0005	02
		RT EDGELINE				
		848+40(N) LT - 850+60(N) LT		220.00	0005	02
		DASH LINE				
		860+50(N) LT - 863+40(N) LT		290.00	0005	02

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025	708.9041 Cont.	895+19(N) RT		1.00	0005	02
		898+20(N) RT		1.00	0005	02
		900+65(N) RT		1.00	0005	02
		906+22(N) RT		1.00	0005	02
		908+65(N) RT		1.00	0005	02
		910+72(N) RT		1.00	0005	02
		912+49(N) RT		1.00	0005	02
		912+62(N) RT		1.00	0005	02
		916+77(N) RT		1.00	0005	02
		918+20(N) LT		1.00	0005	02
		SOUTHBOUND				
		517+40(S) LT		1.00	0005	02
		519+80(S) LT		1.00	0005	02
		588+00(S) LT		1.00	0005	02
		589+42(S) RT		1.00	0005	02
		590+82(S) LT		1.00	0005	02
<b>Item 708.9041 Total:</b>				<b>47.00</b>		
S026	901.0191	GUARDRAIL STEEL BEAM ANCHORAGE	EACH			
		TRAILING END SECTION STANDARD				
		34.3.4				
		NORTHBOUND				
		800+41(N) LT		1.00	0021	01
		816+26(N) LT		1.00	0021	01
		821+77(N) LT		1.00	0021	01
		834+83(N) LT		1.00	0021	01
		852+96(N) LT		1.00	0021	01
		913+17(N) LT		1.00	0021	01
		SOUTHBOUND				
		558+58(S) RT		1.00	0021	01
<b>Item 901.0191 Total:</b>				<b>7.00</b>		
S027	901.0193	GUARDRAIL STEEL BEAM SINGLE FACE	LF			

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S027	901.0193	Cont. STANDARD 34.2.0				
		NORTHBOUND				
		800+48(N) LT - 807+61(N) LT			0021	01
		816+27(N) LT - 818+20(N) LT			0021	01
		821+77(N) LT - 821+80(N) LT			0021	01
		821+77(N) LT - 822+17(N) LT			0021	01
		CURVED				
		822+17(N) LT - 824+42(N) LT			0021	01
		834+90(N) LT - 836+53(N) LT			0021	01
		854+02(N) LT - 859+02(N) LT			0021	01
		913+23(N) LT - 915+36(N) LT			0021	01
		SOUTHBOUND				
		533+64(S) RT - 535+27(S) RT			0021	01
		550+09(S) RT - 558+59(S) RT			0021	01
<b>Item 901.0193 Total:</b>					<b>**DELETED**</b>	
S028	901.0199	GUARDRAIL END TREATMENT, ENERGY	EACH			
		ABSORBING TERMINAL				
		NORTHBOUND				
		807+61(N) LT		1.00	0021	01
		818+20(N) LT		1.00	0021	01
		821+80(N) LT		1.00	0021	01
		836+00(N) LT		1.00	0021	01
		859+02(N) LT		1.00	0021	01
		SOUTHBOUND				
		533+27(S) RT		1.00	0021	01
		549+72(S) RT		1.00	0021	01
<b>Item 901.0199 Total:</b>				<b>7.00</b>		
029	906.0230	CEMENT CONCRETE SLOPE FACE CURB	LF			
		PRECAST STRAIGHT STANDARD 7.2.0				
		NORTHBOUND				
		916+00(N) RT - 920+20(N) RT		392.00	0005	02

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031	910.9901 Cont.	SOUTHBOUND				
		493+30(S) RT - 516+25(S) RT		2,295.00	0021	01
		521+95(S) RT - 585+58(S) RT		6,363.00	0021	01
		590+72(S) RT - 619+58(S) RT		2,886.00	0021	01
<b>Item 910.9901 Total:</b>				<b>22,475.00</b>		
032	914.5010	<b>FLAGPERSONS</b>	<b>MHRS</b>			
		ROADWAY				
		PROJECT WIDE		520.00	0005	02
<b>Item 914.5010 Total:</b>				<b>520.00</b>		
033	914.5020	<b>FLAGPERSONS - OVERTIME</b>	<b>MHRS</b>			
		ROADWAY				
		PROJECT WIDE		50.00	0005	02
<b>Item 914.5020 Total:</b>				<b>50.00</b>		
034	922.0100	<b>TEMPORARY CONSTRUCTION SIGNS</b>	<b>SF</b>			
		<b>STANDARD 29.1.0 AND 27.1.1</b>				
		PROJECT WIDE				
		27.1.1 (48" X 72")		72.00	0021	01
		E5-2A (26" X 48")		72.00	0021	01
		G20-2 (18" X 36")		9.00	0021	01
		M4-10 R (48" X 18")		6.00	0021	01
		M4-8 (24" X 12")		8.00	0021	01
		M4-8A (24" X 18")		3.00	0021	01
		M4-9 R (30" X 34")		5.00	0021	01
		M4-9L (30" X 24")		5.00	0021	01
		M6-3 (21" X 15")		12.00	0021	01
		R11-2 (48" X 30")		10.00	0021	01
		R1-2 (36" X 36")		4.50	0021	01
		SP-1 "WORK ZONE" (48" X 48")		64.00	0021	01
		W20-1 "1 MI" (48" X 48")		48.00	0021	01
		W20-1 "AHEAD" (48" X 48")		64.00	0021	01

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034	922.0100 Cont.	W20-3 (48" X 48")		32.00	0021	01

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034	922.0100 Cont.	W20-5 "1/2 MI LT" (48' X 48")		48.00	0021	01
		W20-5 "1/2 MI RT" (48' X 48")		32.00	0021	01
		W21-5A LT (48" X 48")		32.00	0021	01
		W21-5A RT (48" X 48")		16.00	0021	01
		W3-2 (48" X 48")		16.00	0021	01
		W3-5 (48" X 48")		64.00	0021	01
		W4-1R (48" X 48")		32.00	0021	01
		W4-2R (48" X 48")		48.00	0021	01
		W4-3 (48" X 48")		16.00	0021	01
		W8-7 (48" X 48")		64.00	0021	01
<b>Item 922.0100 Total:</b>				<b>782.50</b>		
035	923.0105	DRUM BARRICADE STANDARD 26.2.0	B DAY			
		PROJECT WIDE				
		PROJECT WIDE		10,000.00	0021	01
<b>Item 923.0105 Total:</b>				<b>10,000.00</b>		
036	923.0200	FLUORESCENT TRAFFIC CONES STANDARD	EACH			
		26.1.0				
		PROJECT WIDE				
		PROJECT WIDE		350.00	0021	01
<b>Item 923.0200 Total:</b>				<b>350.00</b>		
037	925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	P DAY			
		PROJECT WIDE				
		PROJECT WIDE		280.00	0021	01
<b>Item 925.0112 Total:</b>				<b>280.00</b>		
038	928.0800	TRUCK MOUNTED ATTENUATOR WITH	P DAY			
		TRUCK MOUNTED FLASHING ARROW BOARD				
		PROJECT WIDE				
		PROJECT WIDE		264.00	0021	01
<b>Item 928.0800 Total:</b>				<b>264.00</b>		

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

FAP Nos: NHS-0004(014), NHSG-0004(015)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
039	929.0110	FIELD OFFICE	PMO			

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1  
 Estimate Name - Addendum 1  
 R.I. Contract No. - 2015-CH-031  
 FAP Nos: NHS-0004(014), NHSG-0004(015)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
039	929.0110 Cont.	PROJECT WIDE				
		PROJECT WIDE			0005	02
				<b>Item 929.0110 Total:</b>		<b>**DELETED**</b>
040	931.0110	CLEANING AND SWEEPING PAVEMENT	HSY			
		ROADWAY				
		REFERENCE ITEM NO. 935.0400		71.00	0021	01
				<b>Item 931.0110 Total:</b>		<b>71.00</b>
041	932.0100	CUTTING AND MATCHING ASPHALT	LF			
		NORTHBOUND				
		793+30(N) LT - 793+30(N) RT		35.00	0005	02
		821+00(N) LT - 821+00(N) LT		32.00	0005	02
		890+63(N) LT - 891+07(N) LT		54.00	0005	02
		901+25(N) LT - 901+50(N) LT		27.00	0005	02
		919+24(N) RT - 918+47(N) RT		51.00	0005	02
		(ROUTE 1)				
		923+67(N) LT - 923+67(N) RT		41.00	0005	02
		(ROUTE 1)				
		SOUTHBOUND				
		493+30(S) LT - 493+30(S) RT		35.00	0005	02
		520+82(S) RT - 521+05 (S) RT		28.00	0005	02
		561+45(S) RT - 561+70(S) RT		25.00	0005	02
		588+25(S) RT - 588+57(S) RT		39.00	0005	02
		605+06(S) RT - 605+48(S) RT		42.00	0005	02
		614+95(S) RT - 615+22(S) RT		28.00	0005	02
		621+40(S) LT - 621+43(S) RT		52.00	0005	02
				<b>Item 932.0100 Total:</b>		<b>489.00</b>
042	932.0210	FULL DEPTH SAWCUT OF BITUMINOUS	LF			
		PAVEMENT AND RIGID BASE				
		NORTHBOUND				
		916+00(N) RT - 921+67(N) RT		535.00	0005	02

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

FAP Nos: NHS-0004(014), NHSG-0004(015)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
046	943.0200 Cont.	PROJECT WIDE		1,000.00	0005	02
<b>Item 943.0200 Total:</b>				<b>1,000.00</b>		
047	L01.0104	PLANTABLE SOIL 4 INCHES DEEP ROADWAY	SY			
		DROP-OFF LOCATIONS (DETERMINED IN THE FIELD)		1,670.00	0005	02
		LOAM AREAS FOR CURB INSTALLATION (2' WIDTH)		520.00	0005	02
<b>Item L01.0104 Total:</b>				<b>2,190.00</b>		
S048	L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1) ROADWAY	SY			
		REFERENCE STATIONS FROM ITEM CODE L01.0104		2,190.00	0005	02
<b>Item L02.0101 Total:</b>				<b>2,190.00</b>		
049	T13.1000	TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0 NORTHBOUND	LF			
		821+35(N) LT - 821+49(N) LT (2 LOOPS-6'X40')		220.00	0021	01
		821+85(N) RT - 822+25(N) RT (1 LOOP-6'X 40')		150.00	0021	01
		823+76(N) - 823+82(N) (2 LOOPS-6'X6')		110.00	0021	01
		825+60(N) - 825+66(N) (2 LOOPS-6'X6')		120.00	0021	01
		890+18(N) LT - 890+58(N) LT (2 LOOPS-6'X40')		270.00	0021	01
		890+66(N) - 891+06(N) (3 LOOPS-6'X40')		430.00	0021	01
		893+00(N) - 893+06(N) (2		110.00	0021	01

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

FAP Nos: NHS-0004(014), NHSG-0004(015)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
049	T13.1000 Cont.	LOOPS-6'X6')				
		894+60(N) - 894+78(N) (4		220.00	0021	01
		LOOPS-6'X6')				
		918+75(N) LT - 918+81(N) LT		35.00	0021	01
		(1 LOOP-6'X6')				
		919+23(N) LT - 919+58(N) LT		170.00	0021	01
		(1 LOOP-6'X40')				
		920+95(N) - 921+35(N) (2		405.00	0021	01

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

FAP Nos: NHS-0004(014), NHSG-0004(015)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
049	T13.1000 Cont.	LOOPS-6'X40')				
		923+59(N) - 923+65(N) (2		105.00	0021	01
		LOOPS-6'X6')				
		SOUTHBOUND				
		517+08(S) - 517+14(S) (2		110.00	0021	01
		LOOPS-6'X6')				
		518+94(S) - 519+00(S) (2		75.00	0021	01
		LOOPS-6'X6')				
		520+52(S) LT - 520+92(S) LT		150.00	0021	01
		(1 LOOP-6'X40')				
		521+ 50(S) RT - 521+56(S) RT			0021	01
		(1 LOOP-5'X13')				
		521+40(S) RT - 521+46(S) RT			0021	01
		(1 LOOP-5'X35')				
		521+40(S) RT - 521+46(S) RT		140.00	0021	01
		(1 LOOP-6'X40')				
		521+50(S) RT - 521+56(S) RT		100.00	0021	01
		(1 LOOP-6'X20')				
		585+50(S) - 585+70(S) (4		220.00	0021	01
		LOOPS-6'X6')				
		587+14(S) - 587+20(S) (2		110.00	0021	01
		LOOPS-6'X6')				
		589+30(S) - 589+70(S) (3		430.00	0021	01
		LOOPS-6'X40')				
		589+69(S) RT - 590+05(S) RT		280.00	0021	01
		(2 LOOPS-6'X40')				
		619+30(S) - 619+36(S) (2		105.00	0021	01
		LOOPS-6'X6')				
		619+51(S) - 619+57(S) (2		100.00	0021	01
		LOOPS-6'X6')				
<b>Item T13.1000 Total:</b>				<b>4,165.00</b>		

S050 T15.0100

DIRECTIONAL REGULATORY AND WARNING SF

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

FAP Nos: NHS-0004(014), NHSG-0004(015)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
S050	T15.0100	Cont. SIGNS				
		NORTH KINGSTOWN				
		02-01 (W16-8P)		3.00	0021	01
		02-01 (W3-3)		16.00	0021	01
		02-02 (W16-8P)		3.00	0021	01
		02-02 (W3-3)		16.00	0021	01
		03-01 (OM1-2)		4.00	0021	01
		03-01 (R4-7)		12.00	0021	01
		03-02 (M1-5)		9.00	0021	01
		03-02 (M3-1)		3.00	0021	01

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

FAP Nos: NHS-0004(014), NHSG-0004(015)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
S062	T20.2022 Cont.	NORTHBOUND				
		822+53N L		1.00	0021	01
		822+53N R		1.00	0021	01
		823+38N L		1.00	0021	01
		823+38N R		1.00	0021	01
		824+12N L		1.00	0021	01
		891+35N R		1.00	0021	01
		892+23N L		1.00	0021	01
		892+23N R		1.00	0021	01
		892+95N L		1.00	0021	01
		896+04N L		1.00	0021	01
		SOUTHBOUND				
		518+47S L		1.00	0021	01
		519+24S L		1.00	0021	01
		519+24S R		1.00	0021	01
		520+10S L		1.00	0021	01
		520+10S R		1.00	0021	01
		587+27S R		1.00	0021	01
		588+06S L		1.00	0021	01
		588+06S R		1.00	0021	01
		588+94S L		1.00	0021	01
		588+94S R		1.00	0021	01
<b>Item T20.2022 Total:</b>				<b>20.00</b>		
S063	T20.2042	EPOXY RESIN PAVEMENT MARKING - YIELD LINE SYMBOL	EACH			
		NORTHBOUND				
		918+10(N) LT		1.00	0021	01
<b>Item T20.2042 Total:</b>				<b>1.00</b>		
064	414.9901	WARM MIX ADDITIVE PROJECT WIDE	EACH			
		1 UNIT PER EACH TON		9,894.00	0005	02

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

FAP Nos: NHS-0004(014), NHSG-0004(015)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
064	414.9901	Cont.				
				<b>Item 414.9901 Total:</b>	<b>9,894.00</b>	
S065	901.9901	<b>GUARDRAIL STEEL BEAM SINGLE FACE</b>	<b>LF</b>			
<b>WITHOUT RUBRAIL</b>						
NORTHBOUND						
		800+48(N) LT - 807+61(N) LT		713.00		
		816+27(N) LT - 818+20(N) LT		188.00		
		821+77(N) LT - 821+80(N) LT		13.00		
		821+77(N) LT - 822+17(N) LT		69.00		
CURVED						
		822+17(N) LT - 824+42(N) LT		225.00		
		834+90(N) LT - 836+53(N) LT		163.00		
		854+02(N) LT - 859+02(N) LT		500.00		
		913+23(N) LT - 915+36(N) LT		213.00		
SOUTHBOUND						
		533+64(S) RT - 535+27(S) RT		163.00		
		550+09(S) RT - 558+59(S) RT		850.00		
				<b>Item 901.9901 Total:</b>	<b>3,097.00</b>	
066	906.0271	<b>PRECAST CONCRETE SLOPE FACE</b>	<b>EACH</b>			
<b>TRANSITION CURB STANDARD 7.2.1</b>						
NORTHBOUND						
		916+14(N) RT		1.00	0005	02
SOUTHBOUND						
		616+44(S) LT		1.00	0005	02
		620+48(S) RT		1.00	0005	02
				<b>Item 906.0271 Total:</b>	<b>3.00</b>	
067	929.9901	<b>FIELD OFFICE</b>	<b>PMO</b>			
PROJECT WIDE						
		PROJECT WIDE		12.00	0005	02
				<b>Item 929.9901 Total:</b>	<b>12.00</b>	

**Distribution of Quantities**

Project Name - Improvements to Route 4 Contract 1

Estimate Name - Addendum 1

R.I. Contract No. - 2015-CH-031

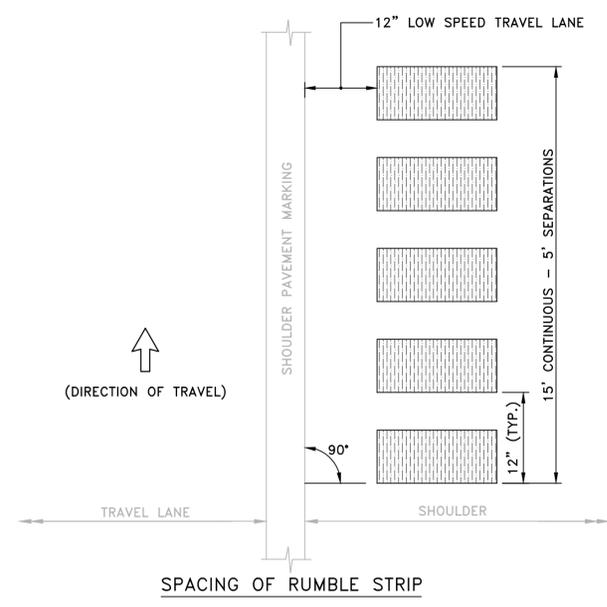
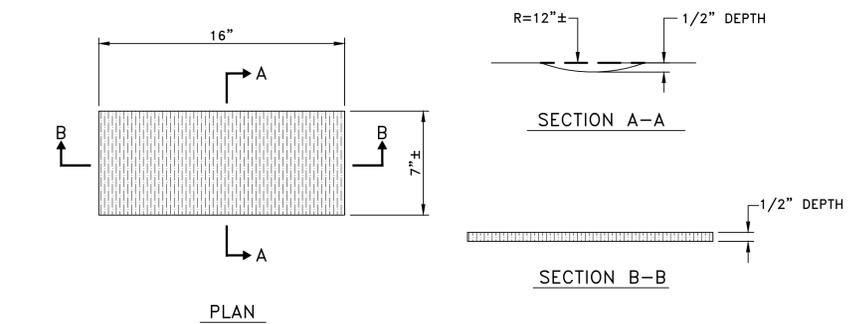
FAP Nos: NHS-0004(014), NHSG-0004(015)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
068	T15.1000	STREET SIGN ASSEMBLY STD. 24.6.1	EACH			
		NORTHBOUND				
		821+23N L		1.00	0021	01
		889+90N L		1.00	0021	01
		SOUTHBOUND				
		521+03S R		1.00	0021	01
		590+12S R		1.00	0021	01
<b>Item T15.1000 Total:</b>				<b>4.00</b>		



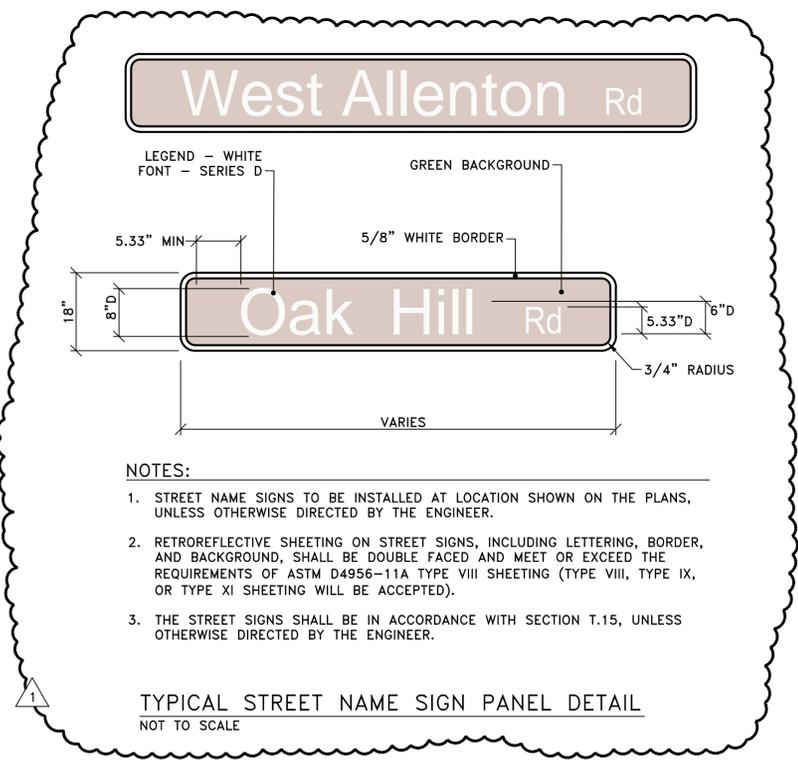






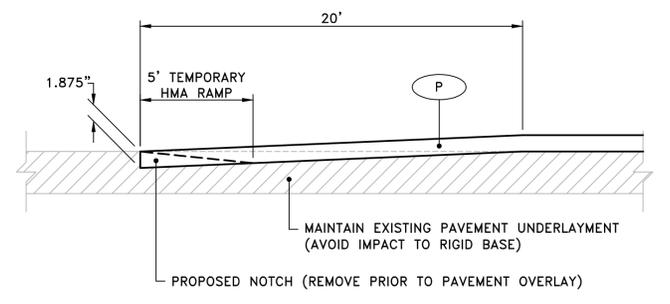
- NOTES:**
1. RUMBLE STRIP ALIGNMENT SHALL GENERALLY BE STRAIGHT. THE OFFSET MAY BE ADJUSTED TO ACCOMMODATE VARIATIONS IN THE EDGE LINE AS WELL AS TO AVOID EXISTING LONGITUDINAL CONSTRUCTION JOINTS.
  2. THE 1/2" DEPTH SHALL GENERALLY APPLY FOR THE ENTIRE 16" LENGTH. SOME VARIATION TO SUIT SHOULDER SLOPE BREAKS MAY BE NECESSARY.

**RS RUMBLE STRIP DETAIL**  
NOT TO SCALE

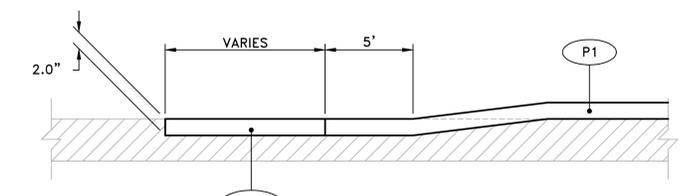


- NOTES:**
1. STREET NAME SIGNS TO BE INSTALLED AT LOCATION SHOWN ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. RETROREFLECTIVE SHEETING ON STREET SIGNS, INCLUDING LETTERING, BORDER, AND BACKGROUND, SHALL BE DOUBLE FACED AND MEET OR EXCEED THE REQUIREMENTS OF ASTM D4956-11A TYPE VIII SHEETING (TYPE VIII, TYPE IX, OR TYPE XI SHEETING WILL BE ACCEPTED).
  3. THE STREET SIGNS SHALL BE IN ACCORDANCE WITH SECTION T.15, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**TYPICAL STREET NAME SIGN PANEL DETAIL**  
NOT TO SCALE



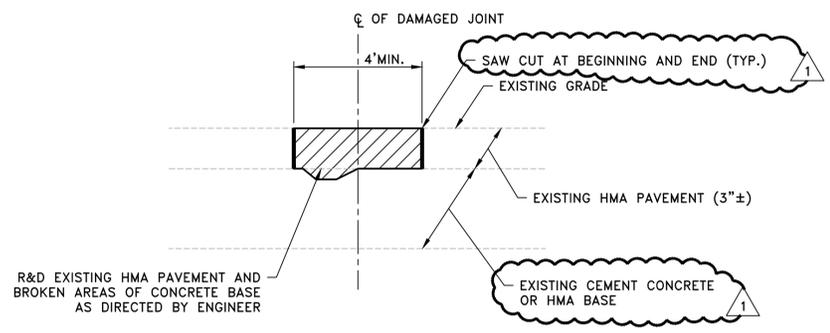
**FOR MATCH INTO EXISTING SECTION AT ROUTE 4 AND ROUTE 1 PROJECT LIMITS**



**FOR SIDE STREETS AND DRIVEWAYS**

- NOTES:**
1. THE TEMPORARY HMA RAMPS SHALL BE PLACED BEFORE THE ROADWAY IS OPEN TO TRAFFIC.
  2. EXISTING LOW POINTS ON SIDE STREETS SHALL BE MAINTAINED.

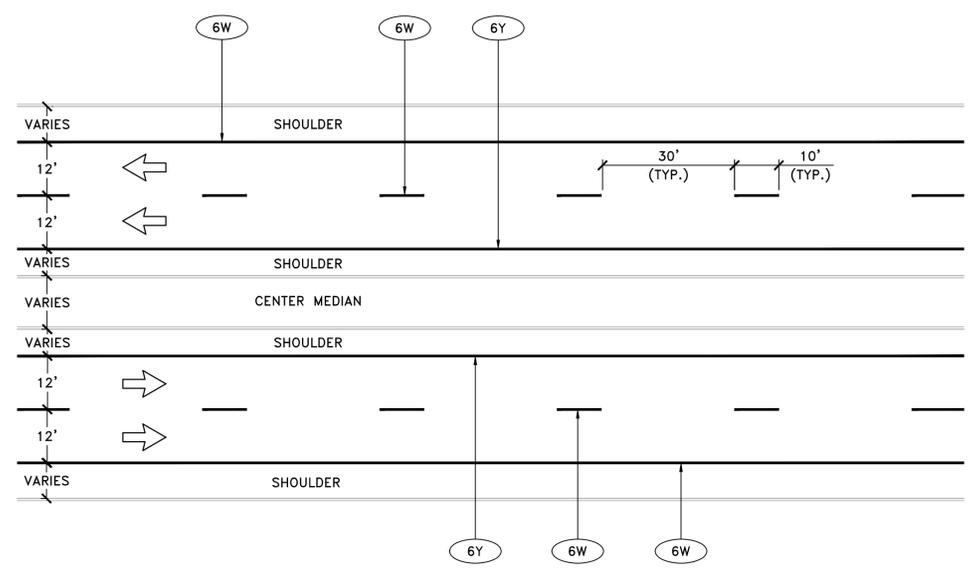
**TRANSVERSE CUT AND MATCH FOR PROPOSED OVERLAY DETAIL**  
NOT TO SCALE



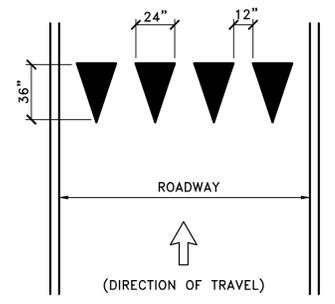
R&D EXISTING HMA PAVEMENT AND BROKEN AREAS OF CONCRETE BASE AS DIRECTED BY ENGINEER

- NOTE:**
1. SEE JOB SPECIFIC SPECIFICATIONS FOR FULL REQUIREMENTS INCLUDING REPLACEMENT.

**REPAIRS TO LONGITUDINAL AND TRANSVERSE JOINTS REMOVAL OF EXISTING PAVEMENT DETAIL**  
(ITEM CODE Nos. 409.9901 AND 409.9902)  
**RLJ RTJ**  
NOT TO SCALE



**TYPICAL STRIPING DETAIL**  
NOT TO SCALE



**WHITE EPOXY RESIN PAVEMENT MARKING YIELD LINE DETAIL**  
**YL**  
NOT TO SCALE



REVISIONS		
NO.	DATE	BY
1	4/8/15	KJM

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO ROUTE 4 CONTRACT 1  
(COLONEL RODMAN HIGHWAY)

NORTH KINGSTOWN, RHODE ISLAND

**DETAILS**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE N/A